

PATENT

App. Ser. No.: 09/853,957
Atty. Dkt. No. ROC92000310US1
PS Ref. No.: IBM/2K/0310

IN THE CLAIMS:

Please amend the claims as follows:

1. (Currently Amended) A method for processing client requests at a server computer, comprising:
 - receiving an initial portion of a client command from a client computer, wherein the client command comprises database request and the initial portion comprises a subset of a sequence of statements forming the database request;
 - predicting what the client command will be when completely received based on the initial portion of the client command, prior to receiving remaining portions of the client command from the client computer, wherein the remaining portions of the client command comprise at least one statement of the database request;
 - executing the predicted client command;
 - receiving the remaining portions of the client command from the client computer;
 - determining whether the complete client command matches the predicted client command; and
 - if the complete client command matches the predicted command, sending a result of executing the predicted command to the client computer;
 - predicting the client command at the client computer based on the portion of the client command;
 - determining, at the client computer, whether the complete client command matches the client's predicted command; and
 - if not, sending the complete client command in its entirety along with a flag indicating an unsuccessful prediction from the client computer to the server computer.
2. (Previously Presented) The method of claim 1, wherein predicting the client command comprises determining a matching command for the initial portion of the client command and wherein executing the predicted client command comprises executing the matching command.

PATENT

App. Ser. No.: 09/853,957
Atty. Dkt. No. ROC920000310US1
PS Ref. No.: IBM/2K/0310

3. (Canceled)
4. (Previously Presented) The method of claim 1, further comprising:
if the complete client command does not match the predicted command,
executing the complete client command as received from the client computer; and
sending a result of executing the complete client command, as received from the
client computer, to the client computer.
5. (Canceled)
6. (Canceled)
7. (Canceled)
8. (Currently Amended) The method of claim 7 1, wherein predicting the client
command at the client computer comprises determining a matching command for the
portion of the client command by comparing a portion of the client command sent to the
server computer with command sets in a database maintained at the client computer.
9. (Previously Presented) The method of claim 1, further comprising generating
a database of repeated client commands wherein the repeated client commands are
commands received at least twice by the server computer.
10. (Original) The method of claim 9, where the commands are received by the
server for a predetermined number of repetitions.
11. (Currently Amended) A server computer configured for operable connection
to a client computer, comprising:

PATENT

App. Ser. No.: 09/853,957
Atty. Dkt. No. ROC920000310US1
PS Ref. No.: IBM/2K/0310

a command set database, wherein the command set database comprises commands expected to be received from the client computer; and

a processor configured to determine a predicted complete command from the command set database in response to receiving an initial portion of a client command from the client computer prior to receiving a remaining portion of the client command, wherein:

the client command comprises database request;

the initial portion comprises a subset of a sequence of statements forming the database request;

the remaining portions of the client command comprise at least one statement of the database request;

and the processor is further configured to receive, from the client computer, the complete command with a flag indicating a prediction of the client command performed at the client based on the initial portion of the client command was unsuccessful.

12. (Previously Presented) The server computer of claim 11, wherein the processor is configured to determine the predicted command by:

determining whether a matching command exists in the command set database for the portion of the command received in an input memory area;

if so, executing the predicted command; and

storing a result of executing the predicted command in an output memory area.

13. (Previously Presented) The server computer of claim 11, wherein the processor is configured to determine whether the predicted command is correct upon receiving a remaining portion of the client command.

14. (Previously Presented) The server computer of claim 13, wherein if the processor determines that the predicted command is not correct, the processor executes the client command, as received in its entirety from the client computer.

PATENT

App. Ser. No.: 09/853,957
Atty. Dkt. No. ROC920000310US1
PS Ref. No.: IBM/2K/0310

15. (Previously Presented) The server computer of claim 11, wherein the database comprises repeated commands, wherein the repeated commands are commands that repeat for a predetermined number of repetitions.
16. (Previously Presented) The server computer of claim 11, wherein the server computer and the client computer are connected through a network.
17. (Previously Presented) The server computer of claim 11, further comprising:
an input memory area to receive portions of commands from the client computer;
and
an output memory area to store the results generated by executing at least one of predicted commands and commands received by the client computer.
18. (Currently Amended) A signal bearing medium, comprising a program which, when executed by a processor, performs a method, comprising:
receiving an initial portion of a client command from a client computer, wherein the client command comprises database request and the initial portion comprises a subset of a sequence of statements forming the database request;
prior to receiving a remaining portion of the client command, determining whether a matching command exists for the received portion of the client command, wherein the remaining portions of the client command comprise at least one statement of the database request;
if so, executing the matching command;
receiving a remaining portion of the client command from the client computer;
determining whether the client command, as received in its entirety, matches the predicted command; and
if the client command matches the predicted command, sending a result of executing the predicted command to the client computer; and

PATENT

App. Ser. No.: 09/853,957
Atty. Dkt. No. ROC920000310US1
PS Ref. No.: IBM/2K/0310

receive, from the client computer, the complete command with a flag indicating a prediction of the client command performed at the client based on the initial portion of the client command was unsuccessful.

19. (Previously Presented) The signal bearing medium of claim 18, wherein determining whether a matching command exists for the received portion of the client command comprises comparing the received portion of the command to commands in a command set database.

20. (Canceled)

21. (Previously Presented) The signal bearing medium of claim 18, wherein the method further comprises:

if the client command does not match the predicted command, executing the complete client command as received from the client computer; and

sending a result of executing the complete client command to the client computer.

22. (Canceled)

23. (Previously Presented) The signal bearing medium of claim 18, wherein the method further comprises:

determining whether the result of executing the predicted command is correct; and

if not, sending a result of executing the complete client command to the client computer.

24. (Previously Presented) The signal bearing medium of claim 23, wherein determining whether the result of executing the predicted command is correct comprises:

PATENT

App. Ser. No.: 09/853,957
Atty. Dkt. No. ROC920000310US1
PS Ref. No.: IBM/2K/0310

determining, at the client computer, whether the complete client command matches the predicted command; and
if not, sending the complete client command from the client computer to the server.

25. (Previously Presented) The signal bearing medium of claim 24, wherein determining, at the client computer, whether the complete client command matches the predicted command comprises comparing the complete client command to entries in a database maintained at the client computer.

26. (Previously Presented) The signal bearing medium of claim 18, wherein the method further comprises generating a database of repeated client commands wherein the repeated client commands are commands received at least twice by the server computer.

27. (Previously Presented) The signal bearing medium of claim 26, where the repeated client commands are received for a predetermined number of repetitions.

28. (Currently Amended) A computer capable of being connected to a network through a network connection, comprising:

an input memory area to receive commands from a client computer connected to the network;

a command set database, wherein the command set database comprises commands expected to be received by the client computer;

an output memory area to store results generated by executing commands received from the client; and

a processor configured to ~~predicted~~predict a complete command from the command set database in response to receiving, in the input memory area, an initial portion of a client command from a client computer, prior to receiving remaining portions of the client command from the client computer wherein:

PATENT

App. Ser. No.: 09/853,957
Atty. Dkt. No. ROC920000310US1
PS Ref. No.: IBM/2K/0310

the client command comprises database request;

the initial portion comprises a subset of a sequence of statements forming the database request;

the remaining portions of the client command comprise at least one statement of the database request;

and the processor is further configured to receive, from the client computer, the complete command with a flag indicating a prediction of the client command performed at the client based on the initial portion of the client command was unsuccessful.

29. (Previously Presented) The server computer of claim 28, wherein the processor is configured to determine the predicted command by:

determining whether a matching complete command exists in the command set database corresponding to the portion of the command received in the input memory area;

if so, executing the predicted command; and

storing a result of executing the predicted command in the output memory area.

30. (Previously Presented) The server computer of claim 28, wherein the database comprises repeated commands, wherein the repeated commands are commands that repeat for a predetermined number of repetitions.

31. (Previously Presented) The server computer of claim 28, wherein the processor is configured to determine whether the predicted command is correct upon receiving a remaining portion of the client command.

32. (Previously Presented) The server computer of claim 31, wherein if the processor determines that the predicted command is not correct, the processor executes the client command, as received from the client computer.

33. (Previously Presented) The method of claim 1, wherein:

PATENT

App. Ser. No.: 09/853,957
Atty. Dkt. No. ROC920000310US1
PS Ref. No.: IBM/2K/0310

the client command comprises a set of statements forming a database request;
and

receiving the portion of the client command from the client computer comprises
receiving one or more, but not all, of the statements.

34. (Previously Presented) The server computer of claim 11, wherein:
the server computer comprises a database queryable by database requests
received from the client computer;
the command set database comprises database requests expected to be
received from the client computer; and
the processor is configured to determine predicted database request from the
command set database in response to receiving one or more query statements forming
a client database request.